952178

LI IDENTIFICATION

LI IDENTIFICATION

SEPA	POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT		
H. SITE NAME AND LOCATION			
O1 SITE NAME (Logical common, or description name of ate)  Chilliam Chilliam Chilliam Chilliam Children	02 STREET, NOUTE NO., OR SPECIFIC LOC  N 12 of Sect 9  ON STATE OS ZIP CODE OR COUNTY	ATION IDENTIFIER  T-U-S R-T-  OTCOUNTY OF CONS  ONST	
1-1 e. ra.ds Fraire To some same server public rend	IGITUDE	11 + E 193 19 ad (258)	
III. RESPONSIBLE PARTIES NO	n-Responsive		
Carry 1	IL LASAIII	UNK	
CS2DDRLM CIT	10 STATE   11 ZP COOR   12 TELEP	HONE NUMBER	
13 TYPE OF OWNERSHIP (Check one)  A. PRIVATE   B. FEDERAL:	DC. STATE OD.CO	UN R	
• •	(Agency name)	UNTY DE MUNICIPAL	
C) F. OTHER:	9) G. UNKNOWN		
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check of shar apply)  A. RCRA 3001 DATE RECEIVED: / MONTH, DAY, YEAR	☐ B. UNCONTROLLED WASTE SITE/CERCIA 103 a) DATE RE	CEIVED: MONTH BAY YEAR A C. NONE	
IV. CHARACTERIZATION OF POTENTIAL HAZARD			
YES DATE HONTH DAY YEAR DE.	THE CONTRACTOR C. STATE  LOCAL HEALTH OFFICIAL F. OTHER:  RACTOR NAME(S):	D. OTHER CONTRACTOR	
02 SITE STATUS (Check sins)	03 YEARS OF OPERATION  Uh K  BEGINNING YEAR  ENGRING YEAR	MUNKNOWN	
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT. KNOWN  O'/Y Waste (Toxic)  Heavy Metals (Soluble)  OB DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND	ORALLEGED  L/TOXIC/PERSISTALET)  MORPOPULATION		
V. PRIORITY ASSESSMENT	ulation/Environment)		
	complete Part 2 - Weste information and Part 3 - Description of Historiaus Conditions	and traderay	
A HIGH (Inspection required premarry) XB. MEDIUM (Inspection required)	C, LOW D. NONE	complete current disposition found	
VI. INFORMATION AVAILABLE FROM	-		
01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER ( )	
04 PERSON RESPONSIBLE FOR ASSESSMENT			

EPA Region 5 Records Ctr.

2	FF	A
V		

## POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION
OI STATE OR SITE NUMBER

	Page 15	Yes G		ASSESSMENT EINFORMATION		III	)980	399 4/54
N. WASTE ST	TATES, QUANTITIES, AN	NO CHARACTER	ISTICS		<del></del>	-	<del></del>	
	TATES "Check of Plus apply)  E. SLURRY R. FINES F. LIQUIO	02 WASTE QUANTE	ITTY AT SITE of weste quantities or rependent	03 WASTE CHARACTE  A TOXIC  B CORROS  C RADIOAC  D PERSISTI	AE SOLU SIVE F INFEC CTIVE G FLAM	JBLE CTIOUS IMABLE	I HIGHLY V J EXPLOSI K REACTIV L INCOMP	SIVE VE PATIBLE
D OTHER	(Specify)	NO OF DRUMS					M NOT AP	
M. WASTE T	YPE			<u> </u>		-		
CATEGORY	SUBSTANCE N	KAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS	<del></del>		
SLU	SLUDGE		<u></u>					
OLW	OILY WASTE		Unk	Unk	Grude	Oil		
SOL	SOLVENTS							
PSO	PESTICIDES							
occ	OTHER DRGANIC CH	HEMICALS	Unk	Unk	Brine	Wasts		
юс	INORGANIC CHEMIC	:ALS						
ACD	ACIOS							
BAS	BASES		<u> </u>					
MES	HEAVY METALS		Unk	Unk	Brine	Wast	<u>e</u>	
<del></del>	OUS SUBSTANCES 1500 A		7	<del>,</del>		<del></del> -		T On the Adjust Of
01 CATEGORY	02 SUBSTANCE N	AME	03 CAS NUMBER	04 STORAGE DISP	OSAL METHOD	05 CONCEN	ITRATION	OS MEASURE OF CONCENTRATION
			<b></b>	<del> </del>		<del> </del> -		<del> </del>
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	L <u>.</u>		<u> </u>	<u> </u>		<u> </u>		<u> </u>
V. FEEDSTO	CKS 'See Appended for CAS Mumbe	iens)		··				···
CATEGORY	D1 FEEDSTOC	K NAME	02 CAS NUMBER	CATEGORY	01 FEEDST	OCK NAME		02 CAS NUMBER
FDS				FDS				
FDS				FDS				
FDS				FOS				
FDS				FDS				
VI. SOURCES	S OF INFORMATION ICA	specific references. A g	. state Hes. sample enalysis.	reports )				
	Felo	ra / S.I.		CA587				

## POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENTIFICATION 01 STATE 02 SITE NUMBER

<b>SEPA</b>		AZARDOUS CONDITIONS AND INCIDENTS	[IM][99	70.399454
II. HAZARDOUS CONDIT			· · · · · · · · · · · · · · · · · · ·	
01 XA GROUNDWATEL 03 POPULATION POTEN Highly lagon. Th	rontamination 406.6 Itially affected brine u his practice has in	02 OBSERVED (DATE) 04 NARRATIVE DESCRIPTION  vaste placed for dispos  mpacted private wells at	XPOTENTIAL  Ial in u  Similar	ALLEGED  Anlined  facilities.
01 .: B. SURFACE WATE 03 POPULATION POTEN	ER CONTAMINATION TIALLY AFFECTED:	02 TOBSERVED (DATE) 04 NARRATIVE DESCRIPTION	L. POTENTIAL	.; ALLEGED
01 C C CONTAMINATIO 03 POPULATION POTEN	ON OF AIR TIALLY AFFECTED:	02 □ OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	POTENTIAL	C: ALLEGED
01 [] D. FIRE/EXPLOSIVE 03 POPULATION POTENT		02 ☐ OBSERVED (DATE:) [	C. POTENTIAL	□ ALLEGEO
01 CI E. DIRECT CONTAI 03 POPULATION POTENT		02 C OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	I POTENTIAL	ALLEGED
01 XF. CONTAMINATIO 03 AREA POTENTIALLY A LOSS & been note	NOFSON UNK AFFECTED: UNK of production (Ag ed at similar 3	02 OBSERVED (DATE 04 NARRATIVE DESCRIPTION land) + Lamage to soil	XPOTENTIAL Structu	re has
		(See J following) (See O2 L: OBSERVED (DATE)	e 05 0+	her following
01 MG. DRINKING WATE 03 POPULATION POTENT	recontamination 406.6  See A above	02 L) OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	XPOTENTIAL.	ALLEGED 0
01 TH. WORKER EXPO 03 WORKERS POTENTIA		02 © OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	POTENTIAL.	v? ALLEGED
01 DI POPULATION EXP 03 POPULATION POTENT	POSURE/INJURY TIALLY AFFECTED		] POTENTIAL	'LI ALLEGED

## POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

L IDENTIFICATION 01 STATE O2 SITE NAMES

IL 1980 349 450

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS E HAZARDOUS CONDITIONS AND INCIDENTS (Community OF MARKATIVE DESCRIPTION The near sterilization of soils (>5 acres), atributed to increased soil salinity, has been noted at other similar sites. (See F Above) (See O5 other following)
02 | OBSERVED (DATE: \_\_\_\_\_\_) | POTENTIAL 01 DK. DAMAGE TO FAUNA 04 NAMPATIVE DESCRIPTION IN C ALLEGED 01 [] L. CONTAMINATION OF FOOD CHAIN 02 () OBSERVED (DATE: \_\_\_ O POTENTIAL ☐ ALLEGED 04 NARRATIVE DESCRIPTION 01 () M UNSTABLE CONTARMENT OF WASTES ☐ ALLEGED 03 POPULATION POTENTIALLY AFFECTED.\_ 04 NARRATIVE DESCRIPTION 01 (... N. DAMAGE TO OFFSITE PROPERTY 02 Li OBSERVED (DATE: \_\_\_\_\_ ☐ POTENTIAL ☐ ALLEGED 04 NARRATIVE DESCRIPTION 01 C O. CONTAMBATION OF SEWERS, STORM DRAINS, WWTPs 02 C OBSERVED (DATE: \_\_\_\_\_ ☐ POTENTIAL ☐ ALLEGED 04 NARRATIVE DESCRIPTION O1 [] P. ILLEGAL/UNAUTHORIZED DUMPING 02 OBSERVED (DATE: \_\_ C) POTENTIAL ☐ ALLEGED 04 NARRATIVE DESCRIPTION Mo Description of any other known, potential or alleged hazards

Do nuding of soils by brines is deemed leading cause of soil

crosion in soveral IL. counties. M. TOTAL POPULATION POTENTIALLY AFFECTED: 406.6 IV. COMMENTS Information as appears Julian Oil V. SOURCES OF INFORMATION ICH MARCHE INTO

## EXECUTIVE SUMMARY

This site has been placed in the ERRIS data base as a result of its selection for Phase II evaluation during the federally funded Surface Impoundment Assessment (SIA) study of 1980. During ERRIS placement the operator name and business address were utilized from the SIA which results in deviations from ERRIS for actual site location, Part I section II items 02 through 08 of form 2070-12. This use of operator name and address has also led to one (1) ERRIS listing representing, in actuality, from one (1) to one hundred eight (108) actual brine pits at an equal number of separate locations.

Some considerable effort has been expended to select the site with highest, Phase II SIA, pollution potential where multiple sites are represented by a single ERRIS listing. One must keep in mind that the Phase II SIA represents no more than 7 percent of the brine pits identified in Illinois. Phase I identified more than 3200 pits where Phase II evaluated a random selection of less than 220. One must also maintain a realization that phase II pollution potential was determined by bench top study with little or no actual site visitation or monitoring.

Minimal to no file information exists on this site beyond that contained in Phases I and II of the SIA. There is no direct evidence of hazardous waste disposal at this site beyond the potentially hazardous constituents of Illinois Basin brines, but with only annual inspections by Illinois Mines and Minerals staff relevent to oil production practices and recent backfilling of most brine pits in Illinois, disposal of off site material of unknown nature is possible. A literature review and laboratory analysis of samples from two other sites indicate concern for contamination of groundwater/surface water by Sodium, Sulfate, Chloride etc. (Non-Hazardous Constituents), concern for heavy metals (i.e., Chrome, Vanadium, Barium) and long chain hydrocarbons.

A question arises as to the addressability of the heavy meatals by CERCLA when one considers 40 CFR section 300.6 "Definitions - Federally Permitted Release (i)" and Section 101(10) of CERCLA. The statement "and which are reinjected" seems to allow CERCLA action, but interpretation and clarification by USEPA legal staff seems required. The long chain hydrocarbons would appear to be included in the exclusion given to crude oil and fractions thereof under 40 CFR section 300.6 "Definitions-Hazardous Substance" and 101(14) of CERCLA.

A medium priority has been assigned due to the potential impact of this site on groundwater in a rural area where private wells are generally the sole source for potable water. Similar sites have impacted private wells to a point requiring users to seek alternative sources for crinking water. A site inspection should be scheduled to verify/update owner-operator information and gain more thorough site specific information.

RML:bf/22

